Index of Claims

| Αp | pΙ | ica | tion | /Co | ntro | ıl No. |
|----|----|-----|------|-----|------|--------|

10/632,688 Examiner

Venkataraman Balasubramanian Applicant(s)/Patent under Reexamination

HAYASHI ET AL.

Art Unit

1624

| /  | Rejected | - | (Through numeral)<br>Cancelled | Z | Non-l  |
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| 11 | Allowed  | + | Restricted                     | - | Interf |

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| Cla  | Claim Date |          |          |          | Cla      | Date       |          |         |           |          |          | Claim |       | Date     |                |                 |          |          |                 |          |          |         |          |       |            |          |          |                              |          |  |  |                 |          |          |
|--|------------|----------|----------|----------|----------|------------|----------|---------|-----------|----------|----------|-------|-------|----------|----------------|-----------------|----------|----------|-----------------|----------|----------|---------|----------|-------|------------|----------|----------|------------------------------|----------|--|--|-----------------|----------|----------|
| Final  | Original   | 4/17/05  |          |          |          |            |          |         |           |          |          |       | Final | Original |                |                 |          |          |                 |          |          |         |          | Final | Original   |          |          |                              |          |  |  |                 |          |          |
| 1  | 1          | =        |          |          |          |            |          | T.      | 1         |          |          |       |       | 51       |                |                 |          |          |                 |          |          |         | ╗        |       | 101        |          |          |                              |          |  |  |                 |          |          |
| 2  | 2          | = :      |          |          |          |            |          |         |           |          |          |       |       | 52       |                |                 |          |          |                 |          | $\Box$   |         |          |       | 102        |          |          |                              |          |  |  |                 |          |          |
| 3  | 3          | =        |          |          |          |            |          |         |           |          | :        | 111   |       | 53       |                |                 |          |          |                 |          |          |         |          |       | 103        |          |          |                              |          |  |  |                 |          |          |
| 4  | 4          | =        | $\Box$   |          |          |            | <u> </u> | ⊥       | $\perp$   | _        | _        |       |       | 54       |                |                 |          |          |                 |          |          | $\perp$ | _        |       | 104        |          |          |                              |          | _  |  |                 |          |          |
| 5  | 5          | =        | $\Box$   |          |          |            | <u> </u> | L       | _         |          | _        |       |       | 55       |                |                 |          |          |                 | _        | $\perp$  | _       | Ц        |       | 105        |          |          | Ш                            |          | <u> </u>   |  |                 | _        | _        |
| 6  | 6          | =        | _        |          |          |            | _        | ╀       | $\perp$   | 4        | _        |       |       | 56       |                |                 | _        |          |                 | 4        | 4        | 4       | ᆚ        |       | 106        |          |          | <u> </u>                     |          | <u> </u>   | L_   |                 |          | _        |
| 7  | 7          | =        |          |          |          | <u>L</u> . | ↓_       | 1       | 4         | 4        | _        |       |       | 57       |                |                 |          |          |                 | $\dashv$ |          | $\perp$ | _        |       | 107        |          | _        |                              | _        | <u> </u>   |  |                 | $\dashv$ | $\dashv$ |
| 8  | 8          | =        | _        |          |          | <u> </u>   | ┼        | 1       | +         | +        |          |       |       | 58       |                |                 | _        |          |                 | 4        | $\dashv$ | +       | 4        |       | 108        |          |          | <u> </u>                     | _        | <u> </u>   | _  | $\dashv$        | $\dashv$ | _        |
| 9  | 9          | =        | $\dashv$ | _        | _        |            | ╀        | ╀       | -         | +        |          |       |       | 59       | <u> </u>       | -               |          |          | $\dashv$        | $\dashv$ | -        | -       | $\dashv$ |       | 109        |          |          |                              |          | <u> </u>   | _  | $\dashv$        | -        | 4        |
| 10   | 10         | =        |          |          |          | <u> </u>   | +-       | ╄       | +         | +        |          |       |       | 60       | -              |                 | _        |          |                 |          | -        | -       | _        |       | 110        |          | _        |                              | -        |  | -  |                 |          | 닉        |
| <u> </u>   | 11         | H        |          | -        | _        | $\vdash$   | $\vdash$ | +       | +         | +        | -        |       |       | 61       | -              | $\vdash$        |          |          | $\vdash \vdash$ | $\dashv$ | +        | +       | $\dashv$ |       | 111        |          |          |                              | $\vdash$ | -  | -  | -               | _        | 긕        |
| <u> </u>   | 12         | -        | $\dashv$ | _        | _        | ├-         | ╀        | +       | +         | +        |          |       |       | 62       | <del>   </del> | Н               | _        | -        | -               | -        | $\dashv$ | -       | $\dashv$ |       | 112        | Н        | _        | $\vdash$                     | $\vdash$ | $\vdash$   | $\vdash$   | $\vdash \vdash$ | $\dashv$ | 긕        |
|  | 13<br>14   |          |          |          |          | -          | $\vdash$ | +       | +         | +        | :        |       |       | 63<br>64 |                |                 |          |          |                 | +        | $\dashv$ | +       | $\dashv$ |       | 113<br>114 | -        |          | -                            | ⊢        | -  | $\vdash$   | -               | -        | $\dashv$ |
| -  | 15         |          | $\vdash$ |          | _        | $\vdash$   | $\vdash$ | +       | +         | +        | $\dashv$ |       |       | 65       | Н              | Н               |          |          | $\vdash$        | $\dashv$ | $\dashv$ | +       | $\dashv$ |       | 115        | Н        | $\vdash$ | H                            | $\vdash$ | $\vdash$   | $\vdash$   | $\vdash$        | $\dashv$ | $\dashv$ |
|  | 16         | $\vdash$ | $\vdash$ |          | $\vdash$ | $\vdash$   | H        | +       | +         | $\dashv$ | -        |       | -     | 66       |                | $\vdash$        |          | -        | $\vdash$        | +        | $\dashv$ | +       | ᅥ        |       | 116        | $\vdash$ |          | Н                            | $\vdash$ | $\vdash$   | ┢  | H               | $\dashv$ | $\dashv$ |
| _  | 17         | -        | -        | -        | _        | $\vdash$   | $\vdash$ | +       | +         | +        | -        |       |       | 67       |                | $\vdash$        |          | _        | $\vdash$        | -        | +        | +       | $\dashv$ |       | 117        | $\vdash$ | $\vdash$ | $\vdash$                     | $\vdash$ | $\vdash$   | $\vdash$   | $\vdash$        | $\dashv$ | $\dashv$ |
|  | 18         |          | -        |          | $\vdash$ | H          | +        | t       | +         | +        | $\dashv$ |       |       | 68       | -              |                 |          |          | Н               | $\dashv$ | -        | +       | $\dashv$ |       | 118        |          |          | $\vdash$                     | $\vdash$ | $\vdash$   | $\vdash$   | Н               | $\dashv$ | $\dashv$ |
|  | 19         |          |          | -        | H        |            | $\vdash$ | t       | +         | +        | -        |       |       | 69       |                |                 |          | -        | Н               | +        | $\dashv$ | $^{+}$  | ┪        |       | 119        |          |          | $\vdash$                     |          |  | Н  | Н               | $\dashv$ | $\dashv$ |
|  | 20         |          | -        | -        |          |            | t        | t       | +         | +        | 1        |       |       | 70       |                |                 | -        |          |                 | $\dashv$ | +        | +       | 7        |       | 120        |          |          |                              | H        | <del>                                     </del> |  | Н               | $\dashv$ | $\dashv$ |
|  | 21         |          |          |          |          | -          |          | t       | $\top$    | 十        | $\neg$   |       |       | 71       |                |                 | $\neg$   |          |                 | $\dashv$ | 7        | +       | _        |       | 121        |          |          | 7                            | _        | -  |  |                 |          | $\neg$   |
|  | 22         |          |          | _        |          |            | T        | T       | $\top$    | 十        |          |       | -     | 72       |                | П               |          |          |                 |          | 寸        | ┪       |          |       | 122        |          |          | $\Box$                       | T        |  |  |                 | 一        | $\neg$   |
|  | 23         |          | $\neg$   |          |          |            |          | T       | $\top$    | 1        | 7        |       |       | 73       |                |                 |          |          |                 | 7        | 7        | $\top$  |          |       | 123        |          |          |                              | Г        |  | <u> </u>   |                 |          |          |
|  | 24         |          |          |          |          |            |          | T       | $\neg$    | _        | 7        |       |       | 74       |                |                 |          |          |                 | 寸        | $\dashv$ | $\top$  |          |       | 124        |          |          |                              |          |  |  |                 | $\neg$   | $\neg$   |
|  | 25         |          | $\neg$   |          |          |            | П        | T       | T         | 7        |          |       |       | 75       |                |                 |          |          |                 | 寸        | ┪        | T       |          |       | 125        |          |          | П                            |          | Ī  |  |                 | $\neg$   |          |
|  | 26         |          |          |          |          |            | Γ        | Τ       | T         |          |          |       |       | 76       |                |                 |          |          |                 | T        | $\neg$   | T       | ╗        |       | 126        |          |          | П                            |          |  |  |                 | $\neg$   |          |
|  | 27         | ·        |          |          |          |            |          |         |           |          |          |       |       | 77       |                |                 |          |          |                 |          |          |         |          |       | 127        |          |          |                              |          |  |  |                 |          |          |
|  | 28         |          |          |          |          |            |          | L       |           |          |          |       |       | 78       |                |                 |          |          |                 |          |          |         |          |       | 128        |          |          |                              |          |  |  |                 |          |          |
|  | 29         | Ш        |          |          |          | L          | L        | $\perp$ | ᆚ         | $\perp$  | _        |       |       | 79       |                |                 |          |          |                 |          |          |         |          |       | 129        |          |          |                              |          |  |  |                 |          |          |
|  | 30         | Ш        |          |          |          | L          | ┖        | ┸       | ┸         | _        | _ :      |       |       | 80       |                | Ш               |          |          |                 | _        | _        |         | ╛        |       | 130        |          |          |                              |          | <u> </u>   | _  |                 |          | _        |
|  | 31         |          | $\perp$  |          |          | Ŀ          | _        | ╀       | 4         | 4        | 4        |       |       | 81       |                |                 |          |          |                 | _        | 4        | 4       | 4        |       | 131        |          |          |                              | _        | _  | _  |                 | $\dashv$ |          |
|  | 32         | Ш        | _        |          |          | _          | _        | ╀       | 4         | 4        | 4        |       |       | 82       |                | Ш               | _        | _        |                 | _        | 4        | 4       | 4        |       | 132        | _        |          | $ldsymbol{ldsymbol{\sqcup}}$ |          | _  | <u> </u>   | _               | _        | _        |
|  | . 33       | Н        | $\dashv$ | _        |          | L          | ┞        | ╀       | +         | +        |          |       |       | 83       | Н              |                 | _        |          |                 | 4        | 4        | _       | 4        |       | 133        |          |          | _                            | _        |  | _  |                 |          |          |
|  | 34         | Н        | $\dashv$ |          | -        | <u> </u>   | ╀        | ╀       | +         | +        |          |       |       | 84       | $\vdash$       | $\square$       | _        |          |                 | -        | -        | +       | 4        |       | 134        | -        |          |                              |          | <u> </u>   | -  | -               | $\dashv$ |          |
|  | 35         |          |          |          |          | -          | ╁        | +-      | +         | +        | :        |       |       | 85       |                | $\vdash$        | -        | _        |                 |          | $\dashv$ | +       | 4        |       | 135        |          | _        |                              |          | <u> </u>   | -  | $\vdash$        |          |          |
| <u> </u>   | 36         | H        | $\dashv$ | _        | $\vdash$ | $\vdash$   | ⊢        | ╀       | +         | -        | - :      |       |       | 86       |                | $\vdash$        |          | -        |                 | $\dashv$ | -        | +       | 4        |       | 136        | $\dashv$ | $\dashv$ | $\vdash$                     | -        | ⊢  | $\vdash$   | $\vdash \vdash$ | _        | 긕        |
| -  | 37<br>38   | $\vdash$ | $\dashv$ |          |          | -          | ┼-       | ╀       | +         | +        | -        |       |       | 87       | $\vdash$       | $\vdash \vdash$ |          | _        |                 | -+       | $\dashv$ | +       | 4        |       | 137<br>138 |          |          | <b>-</b>                     | -        | ├  | ├—   | $\vdash \vdash$ | $\dashv$ | 4        |
| <del>                                     </del> | 39         | Н        |          | -        | -        | -          | +        | +       | +         | +        | $\dashv$ |       |       | 88<br>89 | $\vdash$       | $\vdash\vdash$  | $\dashv$ | -        | -               | $\dashv$ | $\dashv$ | +       | $\dashv$ |       | 138        | $\dashv$ | $\dashv$ | $\vdash$                     | $\vdash$ | $\vdash$   | ├  | $\vdash$        | $\dashv$ |          |
| <u> </u>   | 40         | $\vdash$ |          | -        |          | -          | +        | ╁       | +         | +        | $\dashv$ |       |       | 90       | $\vdash$       | $\vdash \vdash$ | $\dashv$ | _        | $\dashv$        | $\dashv$ | $\dashv$ | +       | $\dashv$ |       | 140        | -        |          | $\vdash$                     | $\vdash$ | ├  | $\vdash$   | $\vdash$        | $\dashv$ | $\dashv$ |
|  | 41         | H        | $\dashv$ | ╣        |          | -          | ╁─       | +       | +         | +        | -        |       |       | 91       | Н              | Н               | $\dashv$ | -        | $\dashv$        | +        | +        | +       | ┥        |       | 141        | $\vdash$ |          | H                            | $\vdash$ | ┢╌   | -  | $\vdash$        | $\dashv$ | $\dashv$ |
| -  | 42         | Н        | -        | -        | -        | -          | 十        | +       | +         | +        | $\dashv$ |       |       | 92       | Н              | $\vdash$        | $\dashv$ |          | -               | $\dashv$ | $\dashv$ | +       | ┥        |       | 142        |          |          | $\vdash$                     | i i      | -  |  | $\vdash \vdash$ | $\dashv$ | $\dashv$ |
|  | 43         | $\vdash$ | -        | $\dashv$ |          | l –        | 十        | +       | +         | +        | $\dashv$ | iil   |       | 93       | Н              | $\dashv$        | $\dashv$ |          | $\dashv$        | $\dashv$ | ┪        | +       | ┨        |       | 143        |          |          | _                            | -        | ┢  | $\vdash$   | $\vdash$        | $\dashv$ | $\dashv$ |
|  | 44         | Н        | _        |          |          | $\vdash$   | T        | T       | $\dagger$ | +        | $\dashv$ |       |       | 94       | Н              | $\vdash$        | $\dashv$ | $\dashv$ | -               | 十        | $\dashv$ | +       | ٦        |       | 144        | $\dashv$ | $\vdash$ |                              | T        | $\vdash$   | <del>                                     </del> | $\vdash$        | 一        | $\dashv$ |
|  | 45         | $\vdash$ | 一        |          |          | Г          | $\vdash$ | T       | +         | 十        | $\dashv$ |       |       | 95       |                | -               |          | $\neg$   |                 | $\dashv$ | +        | $\pm$   | $\dashv$ |       | 145        | $\dashv$ | $\neg$   | $\Box$                       | Т        | $\vdash$   | $\vdash$   |                 | $\dashv$ | $\dashv$ |
|  | 46         | М        | 寸        |          | _        | Т          | T        | T       | $\dagger$ | $\top$   | 1        | H     |       | 96       | М              | $\dashv$        |          | $\neg$   | $\dashv$        | 十        | $\dashv$ | +       | ٦        |       | 146        | $\dashv$ | T        | $\Box$                       | Г        | $\vdash$   | $\vdash$   | $\Box$          | $\dashv$ | $\dashv$ |
|  | 47         | П        | $\dashv$ | ٦        |          | Г          | $\sqcap$ | T       | $\top$    | $\top$   |          |       |       | 97       | М              |                 |          | $\neg$   | $\neg$          | 寸        | 7        | 十       | 7        |       | 147        | $\neg$   |          |                              |          |  | $\vdash$   |                 | $\neg$   | 一        |
|  | 48         |          |          |          |          |            | Γ        | Τ       | 1         | $\top$   |          |       |       | 98       | П              |                 |          |          | $\neg$          | 十        | 7        | $\neg$  | 7        |       | 148        |          |          |                              |          |  |  | $\Box$          | $\neg$   | 一        |
|  | 49         |          |          |          |          |            |          | Ι       | ╧         |          |          |       |       | 99       |                |                 |          |          |                 | 丁        | ╛        |         |          |       | 149        |          |          |                              |          |  |  |                 | 一        |          |
|  | 50         |          |          |          |          |            |          |         | Ι         | Τ        |          |       |       | 100      |                |                 |          |          |                 |          | $\Box$   | $\perp$ |          |       | 150        |          |          |                              |          |  |  |                 |          |          |